

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/249,543

Art Unit / Team No: 01/P6

Date Processed by STIC: 2/26/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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EXAMINER

ART UNIT

PAPER NUMBER

3

DATE MAILED:

Commissioner of Patents

Please find below a communication from the EXAMINER in charge of this application.

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). A computer readable form (CRF) of the sequence listing was submitted. However, the CRF could not be processed by the Scientific and Technical Information Center (STIC) for the reason(s) set forth on the attached CRF Diskette Problem Report. Specifically, problems with designations required by the new rules are indicated in Item 10 of the attached Error Summary.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached CRF Diskette Problem Report with the reply.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William W. Moore whose telephone number is (703) 308-0583. The examiner can be reached Monday through Friday from 9:00 AM to 5:30PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (703) 308-3804. Papers related to this application may be submitted to Group 1800 by facsimile transmission. The faxing of such papers must conform with the notice published November 15, 1989 in the Official Gazette, 1096 OG 30. Informal and unofficial communications may be sent to the Art Unit 1652 FAX number, (703) 308-0294. Official filings should be sent to the Technical Center 1600 FAX number which is (703) 308-4556.

William W. Moore
August 27, 1999


PONNATHAPURA CHUTAMURTHY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached marked-up copy of the "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).
- 7. Other: See attached Error Report and Error Summary

Applicant must provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123
For CRF submission help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

Please return a copy of this notice with your response.

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/249 543

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.

4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 Variable Length Sequence(s) ____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
Indicate in the (ix) features section that some may be missing.

7 Wrong Designation Sequence(s) ____ contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)

8 Skipped Sequences (OLD RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xI) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 Skipped Sequences (NEW RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 Use of N's or Xaa's (NEW RULES) Use of N's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

11 Use of <213>Organism (NEW RULES) Sequence(s) ____ are missing this mandatory field or its response.

12 Use of <220>Feature (NEW RULES) Sequence(s) ____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
(Sec. 1.823 of new Sequence Rules)

13 Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,543DATE: 02/26/1999
TIME: 10:07:01Input Set: I249543.RAW
Does Not Comply

Corrected Diskette Needed

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Evans, Thomas
2 Xu, Ming-Qun
3 <120> TITLE OF INVENTION: Intein-Mediated Protein Ligation Of Expressed Proteins
4 <130> FILE REFERENCE: NEB-154
5 <140> CURRENT APPLICATION NUMBER: US/09/249,543
6 <141> CURRENT FILING DATE: 1999-02-12
7 <160> NUMBER OF SEQ ID NOS: 24
8 <170> SOFTWARE: PatentIn Ver. 2.0
9 <210> SEQ ID NO 1
10 <211> LENGTH: 99
11 <212> TYPE: DNA
12 <213> ORGANISM: Artificial Sequence
13 <220> FEATURE:
14 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
15 Synthesized From Methanobacterium
16 thermoautotrophicum.
17 <400> SEQUENCE: 1
18 tcgaggcaac caaccctgc gtatccgtg acaccattgt aatgactagt ggccgtccgc 60
19 gcactgtggc tgaactggag ggcaaaccgt tcaccgcac 99
20 <210> SEQ ID NO 2
21 <211> LENGTH: 93
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
26 Synthesized From Methanobacterium
27 thermoautotrophicum.
28 <400> SEQUENCE: 2
29 ccgggttggct gctgccaca gttgttaca atgaagccat tagcagtgaa tgcgttagca 60
30 ccgtaaacag tagcgtcata aacatccctgg cgg 93
31 <210> SEQ ID NO 3
32 <211> LENGTH: 100
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
37 Synthesized From Methanobacterium
38 thermoautotrophicum.
39 <400> SEQUENCE: 3
40 tgattcgcgg ctctggctac ccatgcccct caggtttctt ccgcacctgt gaacgtgacg 60
41 tatatgatct gcttacacgt gagggtcatt gcttacgttt 100
42 <210> SEQ ID NO 4
43 <211> LENGTH: 100
44 <212> TYPE: DNA

see p. 5

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,543DATE: 02/26/1999
TIME: 10:07:01

Input Set: I249543.RAW

45 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
48 Synthesized From Methanobacterium
49 thermoautotrophicum.
50 <400> SEQUENCE: 4
51 gaccatgat caccgtgttc tggatggaa tggtgccctg gaatggcggtg cccgggtga 60
52 actggAACgc ggcgaccgccc tggatggaa tgatgcagct 100
53 <210> SEQ ID NO 5
54 <211> LENGTH: 87
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
59 Synthesized From Methanobacterium
60 thermoautotrophicum.
61 <400> SEQUENCE: 5
62 ggcgagtttc cggcactggc aacctccgt ggcctgcgtg ggcgtggccg ccaggatgtt 60
63 tatgacgcta ctgtttacgg tgcttagc 87
64 <210> SEQ ID NO 6
65 <211> LENGTH: 49
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
70 Synthesized From Methanobacterium
71 thermoautotrophicum.
72 <400> SEQUENCE: 6
73 gcattcaactg ctaatggctt cattgtacac aactgtggcg agcagccaa 49
74 <210> SEQ ID NO 7
75 <211> LENGTH: 100
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
80 Synthesized From Methanobacterium
81 thermoautotrophicum.
82 <400> SEQUENCE: 7
83 ccagcggcac gcaggccacg gaagggtgcc agtgccggaa actgccagc tgcacatcc 60
84 atcaccaggc ggtcgcccg ttcagttca cccggcgcac 100
85 <210> SEQ ID NO 8
86 <211> LENGTH: 90
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
91 Synthesized From Methanobacterium
92 thermoautotrophicum.
93 <400> SEQUENCE: 8
94 gccattccag gccaccatcc atcaccagaa cacgggtatc atgggtcaaa cgtaagcaat 60

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,543DATE: 02/26/1999
TIME: 10:07:01

Input Set: I249543.RAW

95 gaccctcacg tgtacgcaga tcataatacg 90
96 <210> SEQ ID NO 9
97 <211> LENGTH: 97
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
102 Synthesized From Methanobacterium
103 thermoautotrophicum.
104 <400> SEQUENCE: 9
105 cacgttcaca ggtgcggaag aaacctgagg ggcatggta gccagagccg cgaatcagtg 60
106 cggtaacgg tttgcctcc agttcagcca cagtgcg 97
107 <210> SEQ ID NO 10
108 <211> LENGTH: 55
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
113 Synthesized From Methanobacterium
114 thermoautotrophicum.
115 <400> SEQUENCE: 10
116 cggaccgcca ctatgttca caatgggtc accggatacg caggggttgg ttgcc 55
117 <210> SEQ ID NO 11
118 <211> LENGTH: 45
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
123 Synthesized From Methanobacterium
124 thermoautotrophicum.
125 <400> SEQUENCE: 11
126 tcgaggcaac caacgcgtgc gatccggtg acaccattgt aatga 45
127 <210> SEQ ID NO 12
128 <211> LENGTH: 45
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
133 Synthesized From Methanobacterium
134 thermoautotrophicum.
135 <400> SEQUENCE: 12
136 ctatgttca caatgggtc accggatacg catgcgttgg ttgcc 45
137 <210> SEQ ID NO 13
138 <211> LENGTH: 36
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
143 Synthesized From Methanobacterium
144 thermoautotrophicum.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,543DATE: 02/26/1999
TIME: 10:07:01

Input Set: I249543.RAW

145 <400> SEQUENCE: 13
146 tcgagggctg cgtatccggt gacaccattg taatga 36
147 <210> SEQ ID NO 14
148 <211> LENGTH: 36
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
153 Synthesized From Methanobacterium
154 thermoautotrophicum.
155 <400> SEQUENCE: 14
156 ctatgtcatta caatgggtgtc accggatacg cagccc 36
157 <210> SEQ ID NO 15
158 <211> LENGTH: 54
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
163 Synthesized From Methanobacterium
164 thermoautotrophicum.
165 <400> SEQUENCE: 15
166 tcgagggcat cgaggcaacc aacggatccg tatccgggtga caccattgtta atga 54
167 <210> SEQ ID NO 16
168 <211> LENGTH: 54
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
173 Synthesized From Methanobacterium
174 thermoautotrophicum.
175 <400> SEQUENCE: 16
176 ctatgtcatta caatgggtgtc accggatacg gatccgttgg ttgcctcgat gccc 54
177 <210> SEQ ID NO 17
178 <211> LENGTH: 54
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
183 Synthesized From Methanobacterium
184 thermoautotrophicum.
185 <400> SEQUENCE: 17
186 tcgagggcat cgaggcaacc aacggcgccg tatccgggtga caccattgtta atga 54
187 <210> SEQ ID NO 18
188 <211> LENGTH: 54
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
193 Synthesized From Methanobacterium
194 thermoautotrophicum.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/249,543DATE: 02/26/1999
TIME: 10:07:01

Input Set: I249543.RAW

195 <400> SEQUENCE: 18
196 ctagtcatta caatgggtgtc accggatacg ggcgcgttgg ttgcctcgat gccc 54
197 <210> SEQ ID NO 19
198 <211> LENGTH: 28
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
203 Synthesized From Methanobacterium
204 thermoautotrophicum.
205 <400> SEQUENCE: 19
206 gtacacgcgt gcggcgagca gcccggga 28
207 <210> SEQ ID NO 20
208 <211> LENGTH: 28
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
213 Synthesized From Methanobacterium
214 thermoautotrophicum.
215 <400> SEQUENCE: 20
216 ccgggtcccggt gctgctcgcc gcatgcgt 28
217 <210> SEQ ID NO 21
218 <211> LENGTH: 14
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
223 Synthesized From Methanobacterium
224 thermoautotrophicum.
225 <400> SEQUENCE: 21
226 Thr Leu Glu Gly Cys Gly Glu Gln Pro Thr Gly Xaa Leu Lys
227 1 5 10 *written 10 on Env
228 <210> SEQ ID NO 22
229 <211> LENGTH: 7
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically
234 Synthesized From Methanobacterium
235 thermoautotrophicum.
236 <400> SEQUENCE: 22
237 Cys Gly Glu Gln Pro Thr Gly
238 1 5
239 <210> SEQ ID NO 23
240 <211> LENGTH: 462
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence: Chemically*

*summary
sheet*

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/249,543

DATE: 02/26/1999

TIME: 10:07:01

Input Set: I249543.RAW

Line ? Error/Warning

Original Text

226 W "N" or "Xaa" used: Feature required

Thr Leu Glu Gly Cys Gly Glu Gln Pro Thr G